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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,624	07/17/2006	Koichi Sugita	024918-0124	4611
22428 7590 66/23/2009 FOLEY AND LARDNER LLP SUITE 500			EXAMINER	
			DESAI, ANAND U	
3000 K STREET NW WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER
	1, 20 20007		1656	•
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/550,624 SUGITA ET AL. Office Action Summary Examiner Art Unit ANAND U. DESAL 1656 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 23 March 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-18 and 24-27 is/are pending in the application. 4a) Of the above claim(s) 1-18 is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 24 and 25 is/are rejected. 7) Claim(s) 26 and 27 is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 20090323.

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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#### DETAILED ACTION

 This office action is in response to the amendment filed on March 23, 2009. Claims 19-23 have been cancelled. New claims 24-27 have been added.

- 2. Upon review of the restriction requirement mailed November 29, 2007 and the remarks filed February 29, 2008 the restriction between group IV and V as drawn to a GLP-1 derivative consisting of the amino acid sequence shown in SEQ ID NO: 5 and SEQ ID NO: 6 is withdrawn. The restriction is withdrawn because the search is not unduly burdensome for SEQ ID NO: 5 and SEQ ID NO: 6.
- Claims 24-27 are currently pending and are under examination.

### Withdrawal of Rejections

- 4. The rejection of claims 19-21, and 23 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention is withdrawn based on the cancellation of the claims.
- The rejection of claims 19-21 under 35 U.S.C. 112, first paragraph, as failing to comply
  with the written description requirement is withdrawn based on the cancellation of the claims.
- 6. The rejection of claims 19-21 under 35 U.S.C. 102(e) as being anticipated by Dong (U.S. Patent 6,903,186 B1) is withdrawn based on the cancellation of the claims and since the U.S. Patent does not disclose the structure claimed.
- The rejection of claims 19-21 under 35 U.S.C. 102(e) as being anticipated by Dong (U.S. Patent 7,268,213 B1) is withdrawn based on the cancellation of the claims and since the U.S.

  Patent does not disclose the structure claimed.

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The rejection of claims 19-21 under 35 U.S.C. 102(e) as being anticipated by Dong (U.S.
 Patent 7,368,427 B1) is withdrawn based on the cancellation of the claims and since the U.S.

Patent does not disclose the structure claimed.

## Information Disclosure Statement

 The information disclosure statement (IDS) submitted on March 23, 2009 is being considered by the examiner. The signed 1449 is attached with the instant office action.

# Pending Rejection

#### **Double Patenting**

10. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January I, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 24 and 25 are rejected on the ground of nonstatutory obviousness-type double
 patenting as being unpatentable over claims 1-12 of U.S. Patent No. 7,291,594 B2. Although the

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conflicting claims are not identical, they are not patentably distinct from each other because the claims are of overlapping scope. The structure of SEQ ID NO: 19 of the issued patent is encompassed by the structure being claimed in the instant application pending claims, wherein the modification can comprise one or more substitutions, insertions, and/or deletions.

# Claim Rejections - 35 USC § 102

12. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- Claims 24 and 25 are rejected under 35 U.S.C. 102(e) as being anticipated by Rinella, Jr. (U.S. Patent 6,440,930 B1).
- Rinella, Jr. disclose the GLP-1 molecule that is a GLP-1 derivative prepared by the process of acylating a GLP-1 analog selected from the group consisting of GLP-1(7-34), GLP-

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1(7-35), GLP-1(7-36), GLP-1(7-37), and the amide forms thereof, with at least one modification selected from the group consisting of: (a) substitution of a glycine, serine, cysteine, threonine, asparagine, glutamine, tyrosine, alanine, valine, isoleucine, leucine, methionine, phenylalanine, arginine, or D-lysine for lysine at position 26 and/or position 34; or substitution of a glycine, serine, cysteine, threonine, asparagine, glutamine, tyrosine, alanine, valine, isoleucine, leucine, methionine, phenylalanine, lysine, or a D-arginine for arginine at position 36; (b) substitution of an oxidation-resistant amino acid for tryptophan at position 31; (c) substitution according to at least one of: Y for V at position 16; K for S at position 18; D for E at position 21; S for G at position 22; R for Q at position 23; R for A at position 24; and Q for K at position 26; (d) substitution comprising at least one of: glycine, serine, or cysteine for alanine at position 8 (see claim 9). Claim 24 is a GLP-1 derivative "having" which is interpreted as comprising and therefore the peptide is not limited to the modification recited, but only includes the modifications recited.

- Claims 24 and 25 are rejected under 35 U.S.C. 102(a) as being anticipated by Hayashi et
   IJP 2002-299283; October 11, 2002; previously cited).
- 16. The structure is disclosed by the formula recited in paragraph [0002]. See also the WO/2004/037859 Abstract which claims priority to JP 2002-299283. The abstract describes a substitution at amino acid residue 8 to impart tolerance to dipeptidyl peptidase IV. Tolerance to trypsin can be imparted by substituting the 26th residue with Gln and the 34th residue with Asn.

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#### Conclusion

17. Claims 26 and 27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

- No claims are allowed.
- 19. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANAND U. DESAI whose telephone number is (571)272-0947. The examiner can normally be reached on Monday - Friday 9:00 a.m. - 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew J. Wang can be reached on (571)272-0811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

June 19, 2009 /ANAND U DESAI/ Primary Examiner, Art Unit 1656